



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: AVNI, Dror et al. Examiner: Ho, Hoai V.  
Serial No.: 09/730,586 Group Art Unit: 2818  
Filed: December 7, 2000  
Title: PROGRAMMING AND ERASING METHODS FOR AN NROM ARRAY

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO-1449:

1. ☐ listing documents including patents, publications and other information for consideration by the Examiner, however, since the subject application was filed after June 30, 2003, copies of United States patents, and/or United States patent applications, and/or United States patent application publications are not included in this information disclosure statement; and/or
2. ☐ listing documents including patents, publications and other information that have been previously cited or submitted to the Patent Office in prior application U.S. Serial No. \_\_\_\_\_, filed \_\_\_\_\_ which is properly identified and relied on for an earlier effective filing date under 35 U.S.C. 120 for consideration by the Examiner; however, in accordance with 37 C.F.R. 1.98(d), copies of such documents are not included in this information disclosure statement; and/or
3. ☒ listing documents including patents, publications, and other information for consideration by the Examiner, copies of which are included with this information disclosure statement;

4. ☒ listing other information for the Examiner's consideration which was cited in a communication from a foreign patent office in a counterpart foreign application, a copy of which is included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document.

This Information Disclosure Statement is being filed:

I) ☒ Within three (3) months of filing the subject Application or entry of the subject Application into the national stage or before mailing of the first Office Action on the merits of the subject Application or a request for continued examination thereof, whichever event occurs last pursuant to of 37 C.F.R §1.97 (b); or

II) ☐ After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first and;

1. ☐ the undersigned hereby states that each item of information listed on the Form PTO-1449 was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to

the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

2. ☐ the undersigned hereby authorizes the Patent Office to charge the fee in the amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

III) ☐ After the period in (I) and (II) but before the payment of the issue fee and,

1. The undersigned hereby states:

a) ☐ that each item of information cited on the form PTO-1449 was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or

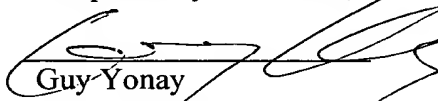
b) ☐ that no items of information contained in Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and

2. ☐ The undersigned hereby authorizes the Patent Office to charge the Petition fee in the Amount of \$180.00 under 37 C.F.R §1.17 (p) to Deposit Account 05-0649.

APPLICANTS: AVNI, Dror et al.  
SERIAL NO.: 09/730,586  
FILED: December 7, 2000  
Page 4

**Except** for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 05-0649.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Guy Yonay', is written over the printed name.

Guy Yonay  
Attorney for Applicants  
Registration No. 52,388

Dated: November 8, 2004

**Eitan, Pearl, Latzer & Cohen Zedek, LLP.**  
10 Rockefeller Plaza, Suite 1001  
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Fax: (212) 632-3490

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<div style="float: left; width: 40%;"><p>Substitute for form 1449A/PTO</p><p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p><p><i>(use as many sheets as necessary)</i></p></div> <div style="float: right; width: 60%; text-align: center;"><p><b>Complete if Known</b></p><table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 60%;">Application Number</td><td>09/730,586</td></tr><tr><td>Filing Date</td><td>December 7, 2000</td></tr><tr><td>First Named Inventor</td><td>Avni, Dror</td></tr><tr><td>Group Art Unit</td><td>2818</td></tr><tr><td>Examiner Name</td><td>HO, HOAI V.</td></tr><tr><td>Attorney Docket Number</td><td>P-2448-US1</td></tr></table></div>				Application Number	09/730,586	Filing Date	December 7, 2000	First Named Inventor	Avni, Dror	Group Art Unit	2818	Examiner Name	HO, HOAI V.	Attorney Docket Number	P-2448-US1
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Sheet	1	of	7												

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1	5,949,714		Hemink et al.	September 7, 1999	
	2	6,064,591		Takeuchi et al.	May 16, 2000	
	3	6,075,724		Li et al.	June 13, 2000	
	4	5,926,409		Engh et al.	July 20, 1999	
	5	6,118,692		Banks	September 12, 2000	
	6	5,812,457		Arase	September 22, 1998	
	7	4,742,491		Liang et al.	May 3, 1988	
	8	5,042,009		Kazerounian et al.	August 20, 1991	
	9	5,295,108		Higa	March 15, 1994	
	10	5,440,505		Fazio et al.	August 8, 1995	
	11	5,523,972		Rashid et al.	June 4, 1996	
	12	5,563,823		Yiu et al.	October 8, 1996	
	13	3,895,360		Cricchi et al.	July 15, 1975	
	14	5,715,193		Norman	February 3, 1998	
	15	5,768,193		Lee et al.	June 16, 1998	
	16	5,812,449		Song	September 22, 1998	
	17	5,892,710		Fazio et al.	April 6, 1999	
	18	5,946,258		Evertt et al.	August 31, 1999	
	19	5,969,993		Takeshima	October 19, 1999	
	20	6,034,896		Ranaweera et al.	March 7, 2000	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	ForeignPatent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	21	JP	07193151		Mori Seiichi	July 28, 1995		<input type="checkbox"/>
	22	JP	09162314		Okazawa Takeshi	June 20, 1997		<input type="checkbox"/>
	23	WO	03/100790		Le et al.	December 4, 2003		<input type="checkbox"/>
	24	WO	03/088260		Le et al.	October 23, 2003		<input type="checkbox"/>
	25	WO	03/088259		Le et al.	October 23, 2003		<input type="checkbox"/>
	26	WO	03/088258		Hamilton et al.	October 23, 2003		<input type="checkbox"/>
	27	WO	03/079370		Liu et al.	September 25, 2003		<input type="checkbox"/>
	28	WO	03/063167		Hamilton et al.	July 31, 2003		<input type="checkbox"/>
	29	WO	02/43073		Bautista et al.	May 30, 2002		<input type="checkbox"/>
								<input type="checkbox"/>

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	09/730,586
				Filing Date	December 7, 2000
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				Examiner Name	HO, HOAI V.
				Attorney Docket Number	P-2448-US1
Sheet	2	of	7		

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		Number	Kind Code <sup>2</sup> (if known)			
	30	6,097,639		Choi et al.	August 1, 2000	
	31	6,157,570		Nachumovsky	December 5, 2000	
	32	6,169,691		Pasotti et al.	January 2, 2001	
	33	5,293,563		Ohta	March 8, 1994	
	34	5,345,425		Shikatani	September 6, 1994	
	35	6,181,605		Hollmer et al.	January 30, 2001	
	36	6,205,056		Pan et al.	March 20, 2001	
	37	6,215,148		Eitan	April 10, 2001	
	38	6,215,702		Derhacopian et al.	April 10, 2001	
	39	6,240,032		Fukumoto	May 29, 2001	
	40	6,240,040		Akaogi et al.	May 29, 2001	
	41	6,266,281		Derhacopian et al.	July 24, 2001	
	42	6,292,394		Cohen et al.	September 18, 2001	
	43	6,304,485		Harari et al.	October 16, 2001	
	44	6,331,950		Kuo et al.	December 18, 2001	
	45	6,396,741		Bloom et al.	May 28, 2002	
	46	6,490,204		Bloom et al.	December 3, 2002	
	47	USAPP.PUB 2002/0132436		Eliyahu et al.	September 19, 2002	
	48	US APP.PUB 2002/0191465		Maayan et al.	December 19, 2002	
	49	5,689,459		Chang et al.	November 18, 1997	

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	50	5,537,358		Fong	July 16, 1996	
	51	5,400,286		Chu et al.	March 21, 1995	
	52	5,450,341		Sawada et al.	September 12, 1995	
	53	5,450,354		Sawada et al.	September 12, 1995	
	54	5,422,844		Wolstenholme et al.	June 6, 1995	
	55	5,424,978		Wada et al.	June 13, 1995	
	56	5,521,870		Ishikawa	May 28, 1996	
	57	5,623,438		Guritz et al.	April 22, 1997	
	58	6,147,904		Liron	November 14, 2000	
	59	6,256,231		Lavi et al.	July 3, 2001	
	60	US APP PUB 2003/0076710		Sofer at al.	April 24, 2003	
	61	6,307,807		Sakui et al.	October 23, 2001	
	62	6,552,387		Eitan	April 22, 2003	
	63	5,787,036		Okazawa	July 28, 1998	
	64	5,870,335		Khan et al.	February 9, 1999	
	65	5,991,202		Derhacobian et al.	November 23, 1999	
	66	6,011,725		Eitan	January 4, 2000	

## FOREIGN PATENT DOCUMENTS

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	67	US APP.PUB 2003/0156456		Shappir et al.	August 21, 2003	
	68	5,677,869		Fazio et al.	October 14, 1997	
	69	5,751,637		Chen et al.	May 12, 1998	
	70	6,330,192		Ohba et al.	December 11, 2001	
	71	6,343,033		Parker	January 29, 2002	
	72	6,426,898		Mihnea et al.	July 30, 2002	
	73	US APP.PUB 2003/0142544		Maayan et al.	July 31, 2003	
	74	5,933,367		Matsuo, et al.	August 3, 1999	
	75	6,584,017		Maayan et al.	June 24, 2003	
	76	6,665,769		Cohen, et al.	December 16, 2003	
	77	5,999,444		Fujiwara et al	December 7, 1999	
	78	4,527,257		Cricchi	July 2, 1985	
	79	5,349,221		Shimoji	September 20, 1994	
	80	5,359,554		Odake et al.	October 25, 1994	
	81	5,418,743		Tomioka et al.	May 23, 1995	
	82	5,434,825		Harari	July 18, 1995	
	83	US APP.PUB 2003/0072192		Bloom et al.	April 17, 2003	
	84	6,307,784		Hamilton et al.	October 23, 2001	
	85	6,320,786		Chang et al.	November 20, 2001	

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				Attorney Docket Number	P-2448-US1
Sheet	6	of	7		

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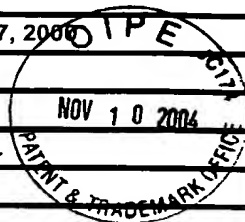
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<b>Sheet</b>	7	of	7



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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	113	BUDE et al. "EEPROM/Flash Sub 3.0V drain - Source Bias Hot Carrier Writing", IEDM, 1995, pp. 989-991	<input type="checkbox"/>
	114	BUDE et al. "Modeling Nonequilibrium Hot Carrier Device Effects Conference of Insulator Specialists of Europe", Jun., 1997	<input type="checkbox"/>
	115	RICCO et al. "Nonvolatile Multilevel Memories for Digital Applications Proceedings of the IEEE", Vol. 86, No. 12 Institute of Electrical and Electronics Engineers, Inc., Dec. 1998, pp. 2399-2421	<input type="checkbox"/>
	116	European Search Report for EP 03001943	<input type="checkbox"/>
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